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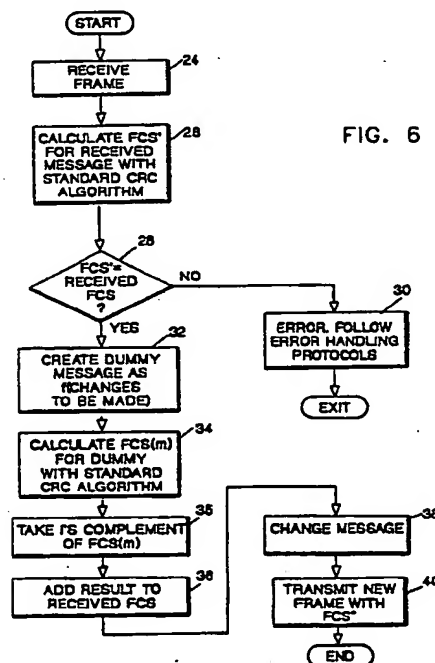
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(54) Method of maintaining integrity of data during message transmission in a data communication system.

(57) In complex networks, data frames may be routed through different systems having different frame or addressing requirements. When the frames are transferred or bridged between such systems, known changes may have to be made in the frame contents to accommodate these requirements. To maintain the integrity of error checking provided by Cyclical Redundancy Checking (CRC) techniques, a system receiving frame modifies a Frame Check Sequence (FCS) field value only as a function of the known or planned changes to be made in the frame. If unplanned changes, that is errors, are introduced at the receiving system, application of standard CRC error checking techniques at the next system to receive the frame will indicate those errors.



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EUROPEAN SEARCH REPORT

Application Number

EP 89 48 0161

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.5)
A	EP-A-0 163 999 (IBM) * Page 4, line 20 - page 5, line 6; page 10, lines 19-27; figure 4 * ---	1	H 04 L 1/00 H 04 L 12/42
A	NAVY TECHNICAL DISCLOSURE BULLETIN, vol. 5, no. 9, September 1980, pages 15-22, Arlington, US; E.R. REINS: "Error-free digital communication system" * Page 17, lines 5-25 * ---	1	
A	IEEE TRANSACTIONS ON POWER APPARATUS AND SYSTEMS, vol. PAS-103, no. 8, August 1984, pages 2058-2064; D.J. DAMKSER: "Distributed control messages, their security and efficiency" * Page 2060, lines 8-24 * -----	2	
			TECHNICAL FIELDS SEARCHED (Int. Cl.5)
			H 04 L
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 04-10-1990	Examiner CRETAINE P.A.
CATEGORY OF CITED DOCUMENTS			
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	

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